Meeting minute

Date: November 1,
2024 **Time:** 15:30
Attendees:

- José Marques – Team Manager
- Abel Teixeira – Product Owner
- Luís Godinho – Architect
- Tiago Lopes – DevOps

Agenda:

1. Planing which database to use
2. Updating the architecture diagram

1. Planing which database to use

The team discussed which databases to use getting to the agreement that the database is going to be scylla (time series).

2. Updating the architecture diagram

The team change the architecture diagram:

- **Front-end:** Specified the front-end framework as React, making the technology stack more transparent.
- **Back-end:** Expanded the back-end to include specific services for handling different types of volcanic data: Earthquake, Magma, Weather, Gases, Soil, and Eruption Services.
- **Data Generators:** Split data handling into separate components for Data Generators and a Data Processor, allowing for distinct stages in data collection and processing
- **Database:** Changed the generic database to a specific NoSQL database, ScyllaDB, optimized for large-scale data handling.
- **Message Queue:** Upgraded the message queue system to Apache Kafka for more robust and real-time data streaming capabilities.

Next Meeting: November 5, 2024
Adjourned: 17h

Action Items Summary:

1. Planing which database to use – Tiago Lopes, Luís Godinho, Abel Teixeira, José Marques
2. Updating the architecture diagram– Tiago Lopes, Luís Godinho, Abel Teixeira, José Marques